

Mississippi Mills LEAR Approach

Draft Approach and Preliminary Scoring Results

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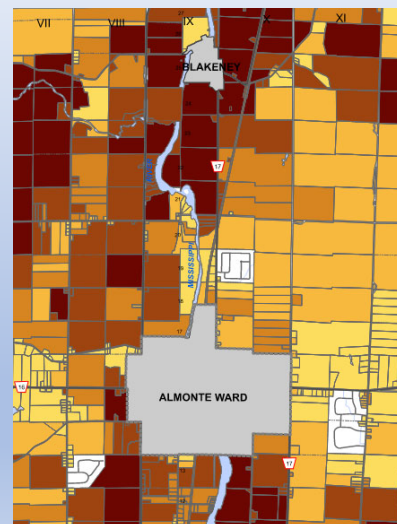
Guiding Objective

Identify and protect prime agricultural lands via identification of good soils and other, area-related factors

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Exclusion of lands in Analysis

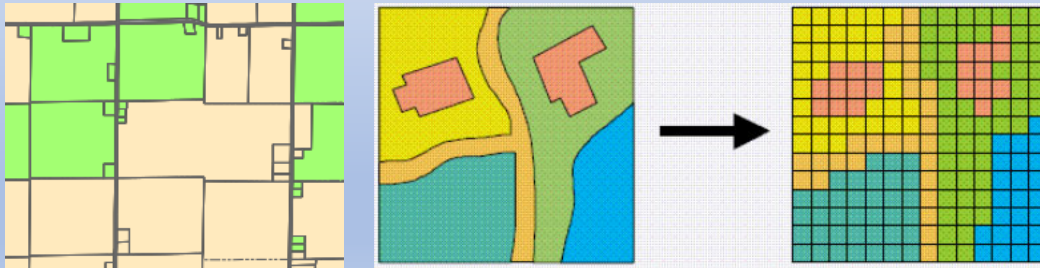
Only exclude settlement areas



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Evaluation Unit Selection

- Land ownership parcels (MPAC)
- Opted against raster approach



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LE,AR Criteria Weighting

- LE = Land Evaluation (Canada Land Inventory (CLI) Soil Capability Classification)
- AR = Area Review (Other factors affecting site suitability for agriculture, aside from soil capability)
- 70% LE, 30% AR (70pts LE, 30pts AR)
- Justification: CLI plays a larger role in determining good soils than AR factors.
- Consideration for AR factors should be **secondary** to soil capability.

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LE Factor Breakdown, Scoring

As mandated by OMAFRA, the Canada Land Inventory (CLI) Soil Capacity Classification dataset was used to evaluate soils in Mississippi Mills.

Soil Capability Class	CLI score (field crop points) FCP	Total Score (/70 points)
1	1	70
Organics	0.9	63
2	0.9	63
3	0.8	56
4	0.6	42
5	0.4	28
6	0.2	14
7	0	0

*Consists of 70% of total score
(70 of 100 total points)*

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AR Factor Considerations

INCLUDED factor	Justification of Choice
Parcel Size	Parcel size is relevant to agricultural viability in the context of MMills. Large parcels are likely needed for the most common farming activities in MMills.
Conflicting Land Uses	Conflicting uses can hinder agricultural activities and/or prevent expansion of facilities.
Percent of Parcel currently used for agriculture (Active Farming)	Active farming requires protection. Active farming uses may suggest that investments have been made to improve soil quality. Value placed on existing farms within community.
EXCLUDED Factor	Justification of Choice
Presence of Farming Infrastructure	Not necessarily reflective of soil capability
% of Land in Agricultural Production Within 1km Evaluation Unit	Not necessarily reflective of soil capability Would place too much consideration on surrounding uses (already considering conflicting uses)

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AR Factor Breakdown, Scoring

AR Score (/30)		
Parcel Size (/10)	Conflicting Land Uses (/10)	Evaluation Unit Currently used for Agriculture (/10)

Maximum Score of 30

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AR Factor: Parcel Size

Recommended Scoring Breakdown

Parcel Size	Score
>81 Acres	10
51-80 Acres	8
26-50 Acres	6
11-25 Acres	4
6-10 Acres	2
1-5 Acres	1
<1 Acre	0

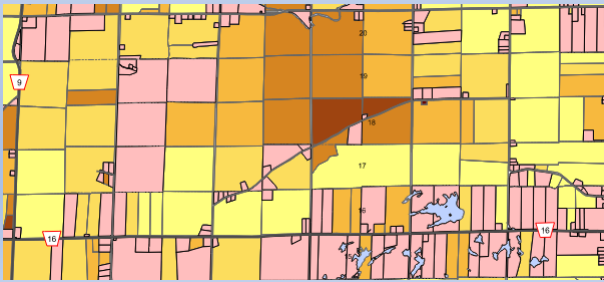
Farm Size Category	Number of Farms (#)	Percentage of all Farms (%)
Farms under 10 acres	6	2.7
Farms 10 to 69 acres	33	14.7
Farms 70 to 129 acres	64	28.6
Farms 130 to 179 acres	27	12.1
Farms 180 to 239 acres	25	11.2
Farms 240 to 399 acres	33	14.7
Farms 400 to 559 acres	12	5.4
Farms 560 to 759 acres	11	4.9
Farms 760 to 1,119 acres	8	3.6
Farms 1,120 to 1,599 acres	4	1.8
Farms 1,600 to 2,239 acres	1	0.4
Farms 2,240 acres and over	0	0.0
All farms	224	100.0

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AR Factor: Conflicting Land Uses

Concerned with individual conflicting land uses located outside of settlement areas.

Number of Individual Conflicting Land Uses within 750m	0-5	6-10	11-15	16-20	21-25	>26
Score	10	8	6	4	2	0



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AR Factor: Active Farming

Percent of total parcel area currently used for Agriculture

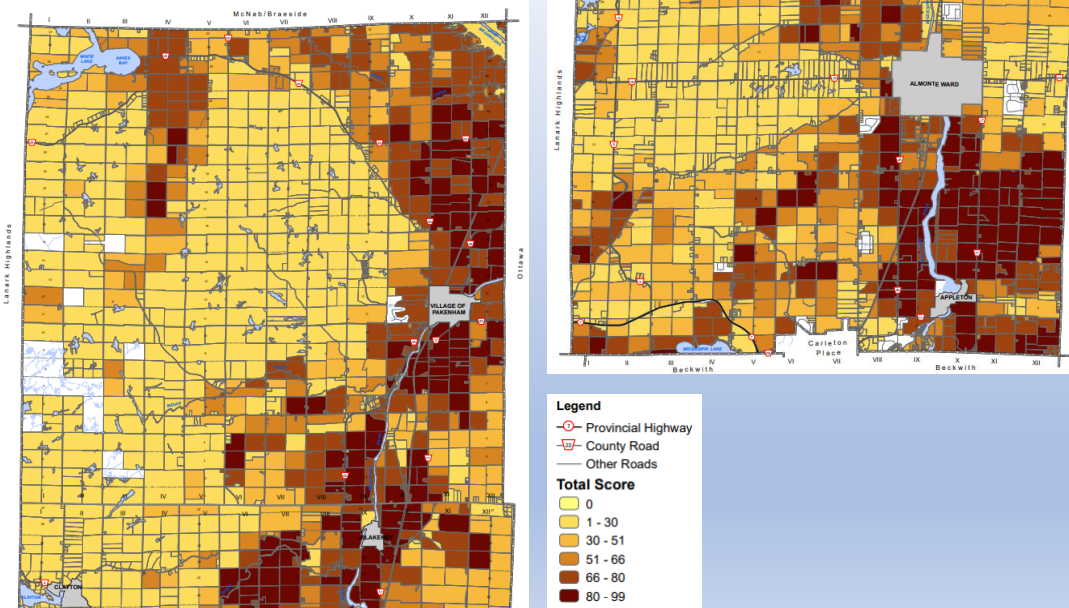
Determined using MPAC Codes and Agriculture and Agri-Food Canada's (AAFC) 2019 Cropland Data

Percentage of Evaluation Unit (Parcel) Currently Used for Agriculture	Score
0%	0
1% - 9%	1
10% - 20%	2
21% - 30%	3
31% - 40%	4
41% - 50%	5
51% - 60%	6
61% - 70%	7
71% - 80%	8
81% - 90%	9
91% or Greater	10

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Preliminary Total Scores

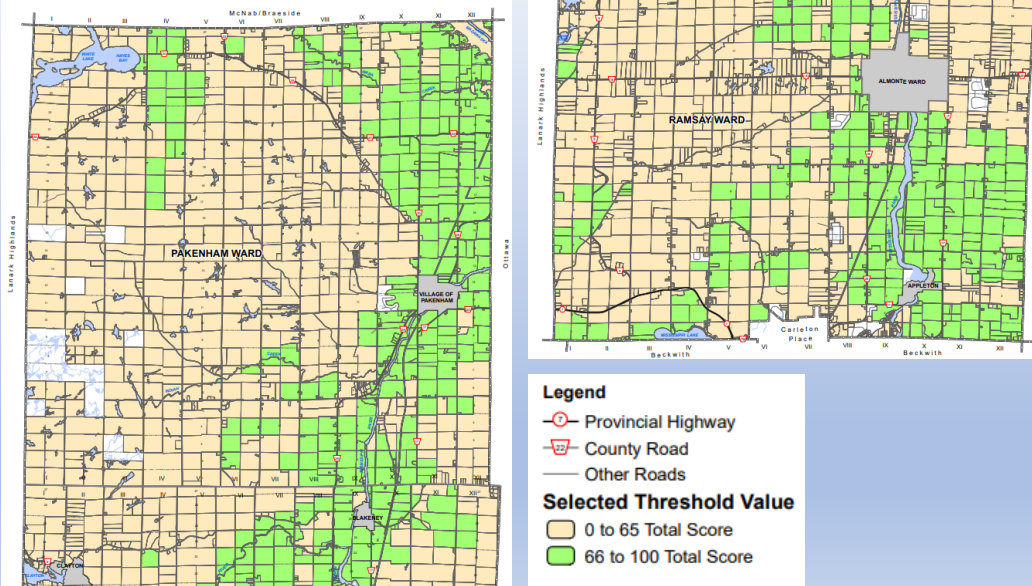
Figure 5. Total LEAR Score per Evaluated Parcel



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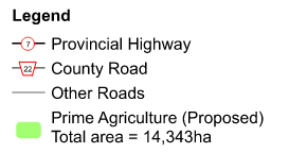
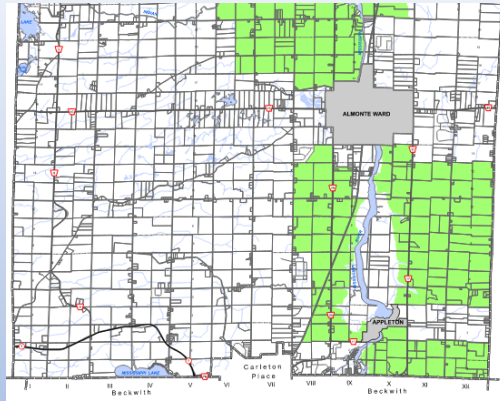
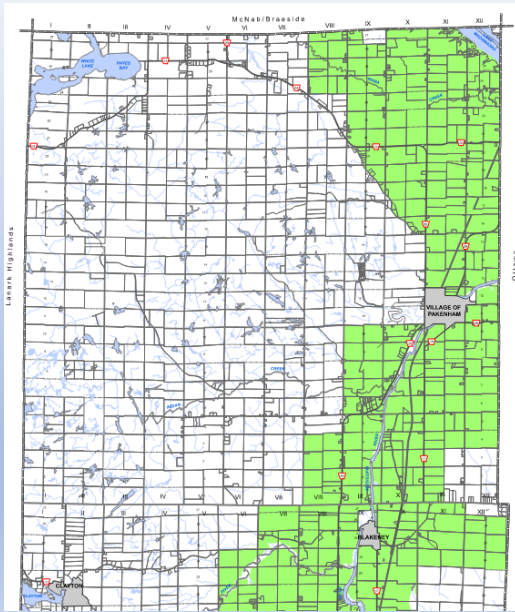
66+ Score Threshold Results

Figure 6. Parcels with LEAR Scores of 66+



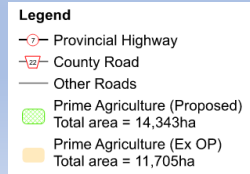
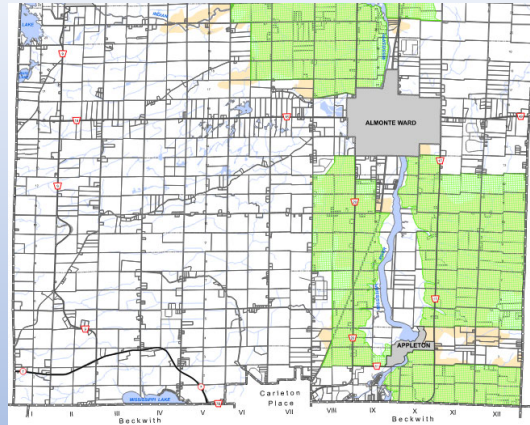
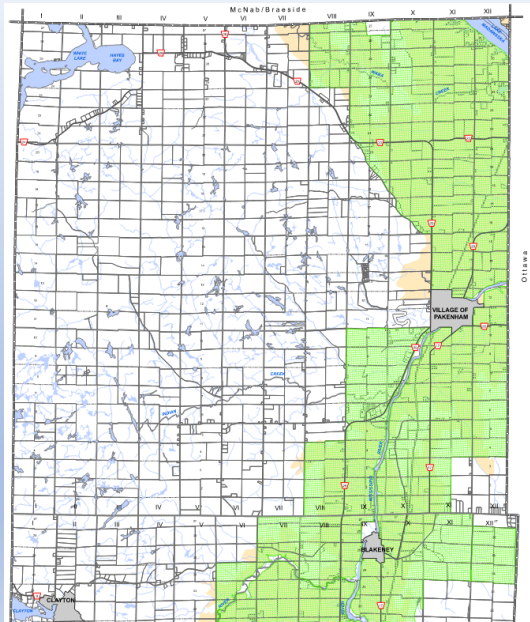
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Land Recommended for AG Designation



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Comparing Current and Recommended AG Lands



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